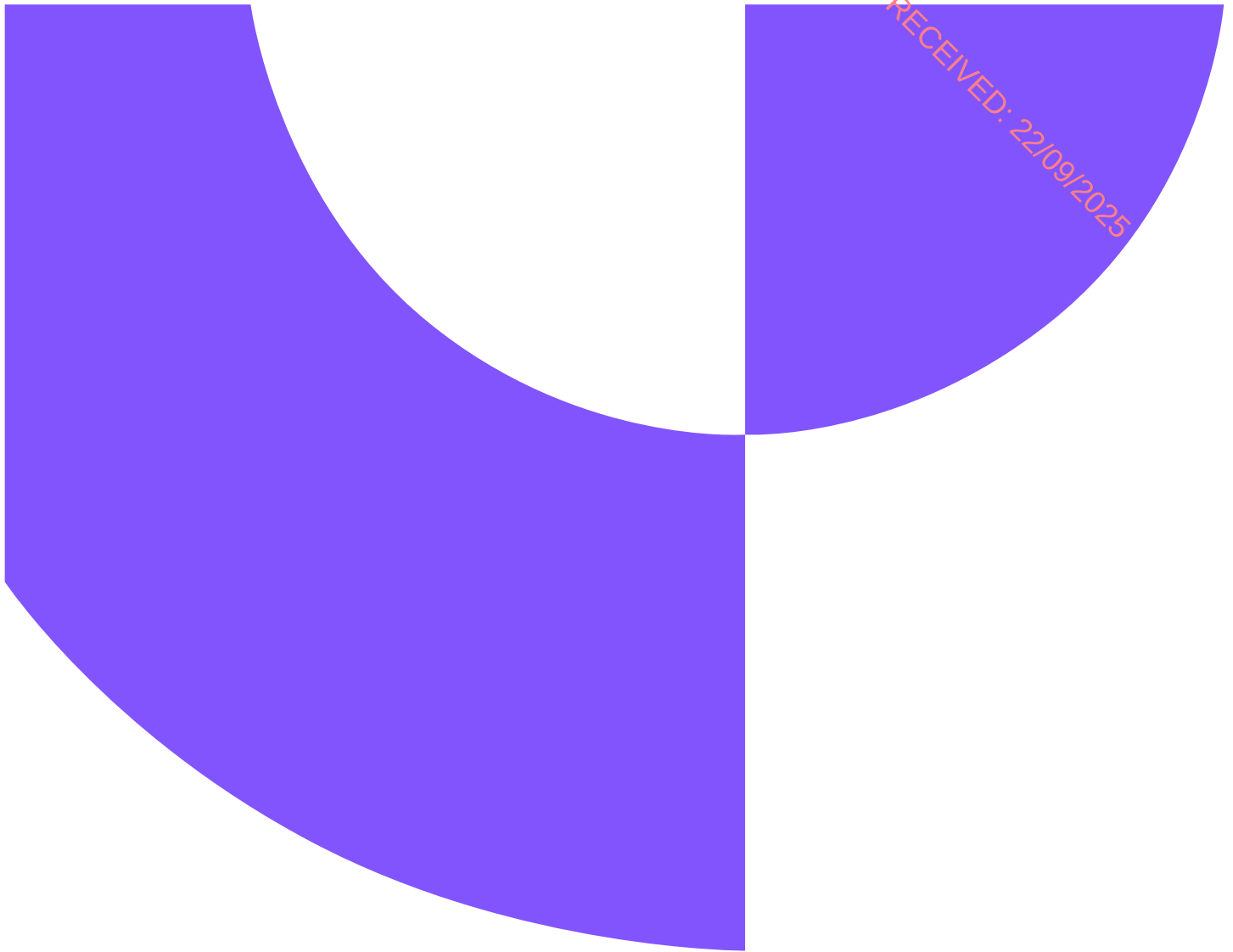


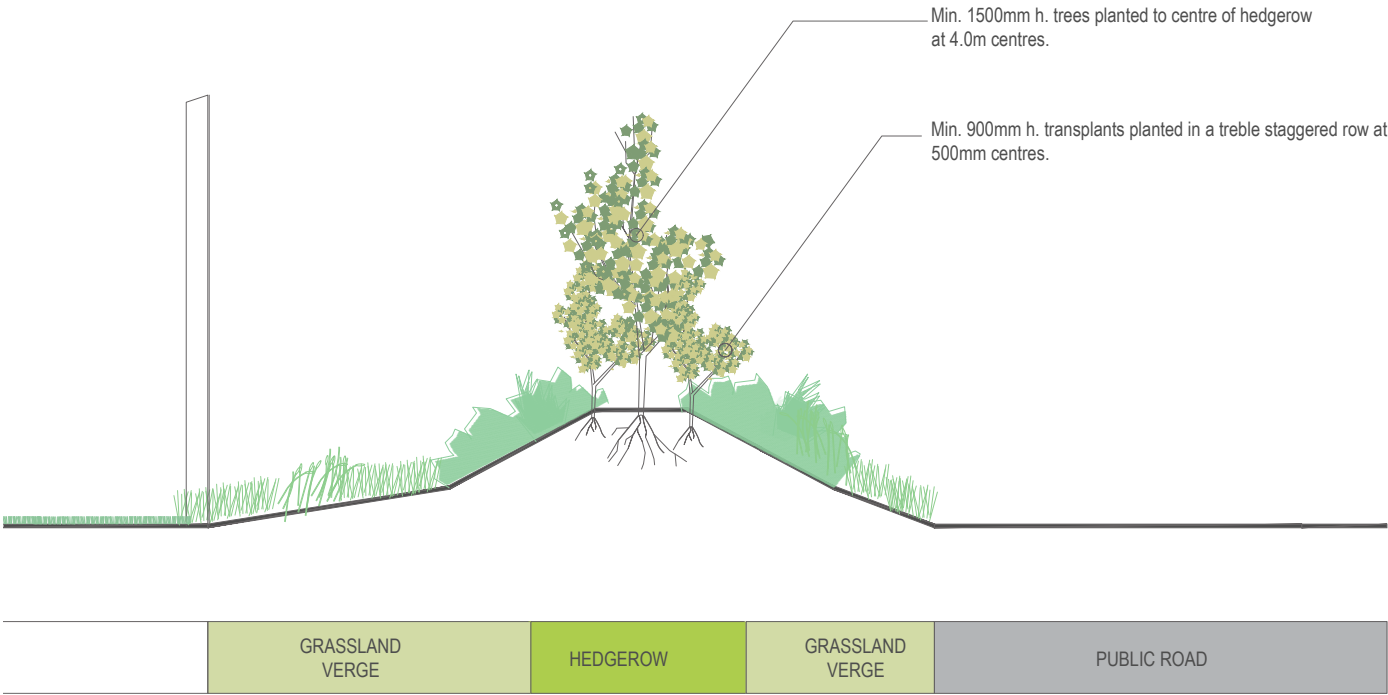


Appendix 5.3 – Landscape Drawings and Landscape Mitigation Proposals Report

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Shelburne Energy Farm

Landscape and Biodiversity Mitigation Proposals



On behalf of Gen7 Renewables Ltd.

18.09.2025

Revision	Date	Description	Approved
00	10.09.2025	Draft	DM
01	18.09.2025	Planning Application	DM

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This document is to be read in conjunction with the following accompanying drawings:

25WX01-DR-0100	Mitigation Plans - Overall	25WX01-DR-0700	Hedgerow Replanting Detail 01
25WX01-DR-0101	Mitigation Plans - Section A	25WX01-DR-0701	Hedgerow Replanting Detail 02
25WX01-DR-0102	Mitigation Plans - Section B	25WX01-DR-0702	Hedgerow Reinforcement Detail 01
25WX01-DR-0103	Mitigation Plans - Section C	25WX01-DR-0703	Hedgerow Reinforcement Detail 02
25WX01-DR-0120	Areas for Biodiversity	25WX01-DR-0704	Mitigation Planting - Native Woodland mix
25WX01-DR-0104	Mitigation Plans - House Y34 T856	25WX01-DR-0705	Mitigation Planting - Low Scrub Woodland
25WX01-DR-0105	Mitigation Plans - House Y34 WD58	25WX01-DR-0706	Existing Hedgerow Detail 01
25WX01-DR-0106	Mitigation Plans - House Y34 E681		
25WX01-DR-0107	Mitigation Plans - House Y34 RY27		
25WX01-DR-0108	Mitigation Plans - House Y34 RC85		
25WX01-DR-0109	Mitigation Plans - House Y34 A295		
25WX01-DR-0110	Mitigation Plans - House Y34 XD77		
25WX01-DR-0111	Mitigation Plans - House Y34 WK50		
25WX01-DR-0112	Mitigation Plans - House Y34 RF82		
25WX01-DR-0113	Mitigation Plans - House Y34 XH68		
25WX01-DR-0114	Mitigation Plans - House Y34 NW29		
25WX01-DR-0115	Mitigation Plans - House Y34 PP86		
25WX01-DR-0116	Mitigation Plans - House Y34 KP82		
25WX01-DR-0400	Landscape Sections - House Y34 WD58		
25WX01-DR-0401	Landscape Sections - House Y34 T856		
25WX01-DR-0402	Landscape Sections - House Y34 E601		
25WX01-DR-0403	Landscape Sections - House Y34 E601		
25WX01-DR-0404	Landscape Sections - House Y34 RY27		
25WX01-DR-0405	Landscape Sections - House Y34 RY27		
25WX01-DR-0406	Landscape Sections - House Y34 RC85		
25WX01-DR-0407	Landscape Sections - House Y34 A295		
25WX01-DR-0408	Landscape Sections - House Y34 WK50		
25WX01-DR-0409	Landscape Elevation - Entrance to Solar Farm		

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2.0	Proposed Mitigation Planting	Page 09
3.0	Outline Maintenance Schedule	Page 19

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Shelburne Energy Farm

1.0 Introduction

1.0 Introduction



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1.0 Introduction

Áit U+L were appointed by Gen7 Renewables Limited to develop landscape and biodiversity mitigation proposals for the Shelburne Energy Farm as part of the application for Planning Permissions.

In developing mitigation proposals the principal considerations have been:

- Protection and enhancement of the field boundary hedgerow network as the principle landscape structures of the site and its hinterland. The field boundary hedgerows compartmentalise the development into smaller field units, provide habitat for local flora and fauna and an interconnected network of wildlife corridors:
 - 2,700 linear meters of degraded hedgerow will be replanted.
 - 3,800 linear meters existing hedgerow will be retained and reinforced with new planting.
 - 8,600 linear meters of higher quality hedgerow will be retained with no works proposed.
- In planning the Energy Farm; careful consideration has been given to minimising impacts and breaks to hedgerows.
- Sufficient space has been allocated to ensure long term viable hedgerow retention and enhancement.
- Where existing hedgerow have been degraded by harsh cutting in the past; hedgerow replanting is proposed.
- Where hedgerows have gaps or localised degradation they shall be reinforced with additional planting.
- The cumulative benefit of retaining and enhancing the hedgerow network reduces the visual presence and perception of the solar arrays and associated infrastructure by providing screening from public roads and adjoining properties and by providing vegetated breaks.

Where adjoining dwellings overlooking the Energy Farm do not benefit from existing hedgerows for screening additional mitigation planting has been proposed. Details of the planting; species and specification are provided in the landscape drawings; including illustrative sections and plan drawings. The overall approach to the hedgerow retention, reinforcement and replanting is identified on the landscape plans provided.

The species proposed are all native to the island of Ireland and as far as is feasible all stock shall be of Irish Provenance.

For mitigation planting 2 types of woodland mix are proposed.

- A traditional woodland mix with a climax canopy of Oak and Scots Pine.
- A low scrub woodland of predominantly Hazel and Hawthorn with a high proportion of Holly for Winter screening. The Low Scrub woodland is proposed where there is an objective of minimising overshadowing of adjoining private garden areas and to retain long distance views from adjoining dwellings.

To minimise the impact of site entrances and gates new hedgerow planting will be provided behind and in front of the new boundary fences. Granite gates piers will be provided each side of the gates in the vernacular style of South Wexford

Sequence of Works

Prior to the installation of the Solar arrays and associated infrastructure the site fencing shall be constructed and associated hedgerow planting and mitigation planting shall be undertaken in the next available planting season (November to March inclusive).

Landscape Management

The new planting shall be managed in compliance with a landscape management plan. The key principals of the management plan are:

- The landscape contractor shall be retained to undertake maintenance and replacement planting for a minimum of 3 years post practical completion of the works.
- All planting and tree failures arising during the first 3 years post practical completion shall be replaced by the developer.
- All planting works to be undertaken during the dormant season; November to March inclusive.
- Where Rabbits are present; trees and shrub planting are to be protected with appropriate rabbit guards.
- All pruning of vegetation to be undertaken outside of the bird nesting

season only; that is only undertaken from September 1st to February 28th.

- Grassland to be grazed by sheep on a low intensity regime.

Areas for Biodiversity

Over 15% of the total development area of the Energy Farm will be set aside for Biodiversity conservation and enhancement.

- 2.01 hectares of existing wet grassland and scrub mix to be conserved and managed to protect existing habitats.
- 2.64 hectares of existing marsh and scrub mix to be conserved and managed to protect existing habitats.
- 5.33 hectares of existing marsh, wet grassland and scrub mix to be conserved and managed to protect existing habitats.
- Retention of 0.73 hectares including an existing building and bat roost to be left undisturbed.
- Retention of 1.45 hectares of mixed woodland.
- 3.66 hectares of former agricultural pasture and tillage land is to be planted with native woodland; Alder and Oak on lower lying ground adjacent streams and flood prone areas and Hazel and Oak woodland on drier ground.
- Additional mitigation planting adjoining dwellings will consist of dense native woodland and shrub planting and provides a cumulative area of 1.03 hectares.
- Replanting of degraded hedgerows over and a cumulative area of 1.35 hectares.

1.0 Introduction



House Y34 A295: Looking east, existing hedgerow



House Y34 E681: Looking west, existing trees



03: Looking northeast, existing hedgerow



House Y34 RC85: Looking northeast, existing hedgerow



House Y34 RY27, looking west, existing garden vegetation



House Y34 T856: Looking north, existing garden vegetation



House Y34 X889: Looking north, existing hedgerow



House Y34 WD58: Looking north, existing hedgerow and garden vegetation



House Y34 WK50: Looking east, existing garden vegetation

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Shelburne Energy Farm

2.0 Mitigation Planting

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Woodland Planting - Oak Park, Naas (planted 2019, photographed 2024)



Woodland Planting - Oak Park, Naas (planted 2019, photographed 2024)



Woodland Planting - Glenheron, Greystones (planted 2018, photographed 2024)



Woodland Planting - Glenheron, Greystones(planted 2018, photographed 2024)



WX Mixed Native Woodland (1 per sqm)

WOODLAND PLANTING:

Specimen Trees;

4.0m high, wrb, 1.5m s.

Scots Pine *Pinus sylvestris*

Over storey and dominant species:

feathered, 1500-1800mm h., br.

80% Oak *Quercus robur*

20% Scots Pine *Pinus sylvestris*

Under storey and minor species;

feathered/whips 900-1200mm h., br.

40% Hawthorn *Crataegus monogyna*

20% Sloe *Prunus spinosa*

10% Hazel *Corylus avellana*

20% Holly *Ilex aquifolium*

5% Spindle *Euonymus europeus*

5% Guelder Rose *Viburnum opulus*

NOTES ON MANAGEMENT :+ 2

Year 1 + 2

Maintain weed free abse to each tree; 200-300mm radius by hand weeding or using a proper non-harmful and glyphosate free herbicide. Spraying to be undertaken post May and/or when bulb foliage has died back.

Ensure all tree stakes and ties are secure. Ensure all staked trees are upright and adjust if necessary.

Year 3

Remove all tree stakes and ties.



Quercus robur



Corylus avellana



Pinus sylvestris



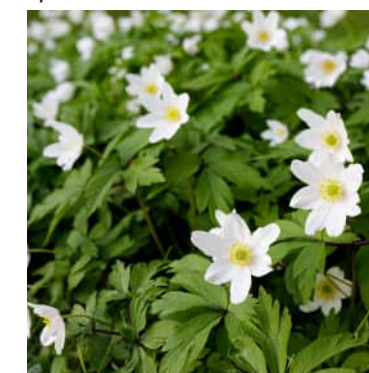
Ilex aquifolium



Viburnum opulus



Hyacinthoides non-scriptus



Anemone nemorosa



Allium ursinum

Shelburne Energy Farm



LWX Low Scrub Woodland (1 per sqm)

WOODLAND PLANTING:

Specimen Trees;
4.0m high, wrb, 1.5m s.

- 80% Birch *Betula pendula*
- 20% Scots Pine *Pinus sylvestris*

Over storey and dominant species:
feathered, 1500-1800mm h., br.

- 45% Hazel *Corylus avellana*
- 45% Hawthorn *Crataegus monogyna*
- 10% Oak *Quercus robur*

Under storey and minor species;
feathered/whips 900-1200mm h., br.

- 20% Sloe *Prunus spinosa*
- 40% Holly *Ilex aquifolium*
- 20% Spindle *Euonymus europeus*
- 20% Guelder Rose *Viburnum opulus*

NOTES ON MANAGEMENT :+ 2

Year 1 + 2

Maintain planting beds weed free using a systemic herbicide:

Glyphosate or similiar approved. 1 spray during the growing season,
post May and/or when bulb foliage has died back.

Ensure all tree stakes and ties are secure. Ensure all staked trees are upright and adjust if necessary.

Year 3

Remove all tree stakes and ties.



Corylus avellana



Crataegus monogyna



Prunus spinosa



Ilex aquifolium



Euonymus europeus



Viburnum opulus



Hx Native hedgerow

Planted at 500mm centres in a staggered rows, 0,9 - 1,2m. ht.

Tees:

1.5-1.8m high

40%	Oak	<i>Quercus robur</i>
20%	Crab Apple	<i>Malus sylvestris</i>
20%	Wild Cherry	<i>Prunus avium</i>
20%	Scots Pine	<i>Pinus sylvestris</i>

Whips:

900-1200mm high, bareroot stock.

40%	Hawthorn	<i>Crataegus monagyna</i>
20%	Sloe	<i>Prunus spinosa</i>
20%	Hazel	<i>Corylus avelana</i>
10%	Holly	<i>Ilex aquifolium</i>
5%	Spindle	<i>Euonymus europaeus</i>
5%	Guelder Rose	<i>Viburnum opulus</i>



Crataegus monagyna



Prunus spinosa



Ilex aquifolium



Rosa canina



Viburnum opulus

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Shelburne Energy Farm

3.0

**Outline Maintenance
Schedule**

Shelburne Energy Farm Annual Landscape Maintenance												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Minimum visits per Month	1	1	1	1	1	1	1	1	1	1	1	1
Pruning												
Replacement Planting												
Hedge Cutting												
Spot treat weed Control												
Top up bark Mulching												
Sheep grazing												
Woodland Planting Weed Control												
Tree stake / Tie Adjustments												
Firm in any loose plants												
Checking boundary fencing												
Checking of rabbit guards												
NOTE	Weekly inspections to be carried out to ensure equipment is safely maintained to manufacturers specification.											

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3rd Floor,
Newmarket House,
Newmarket Square,
Dublin 8.



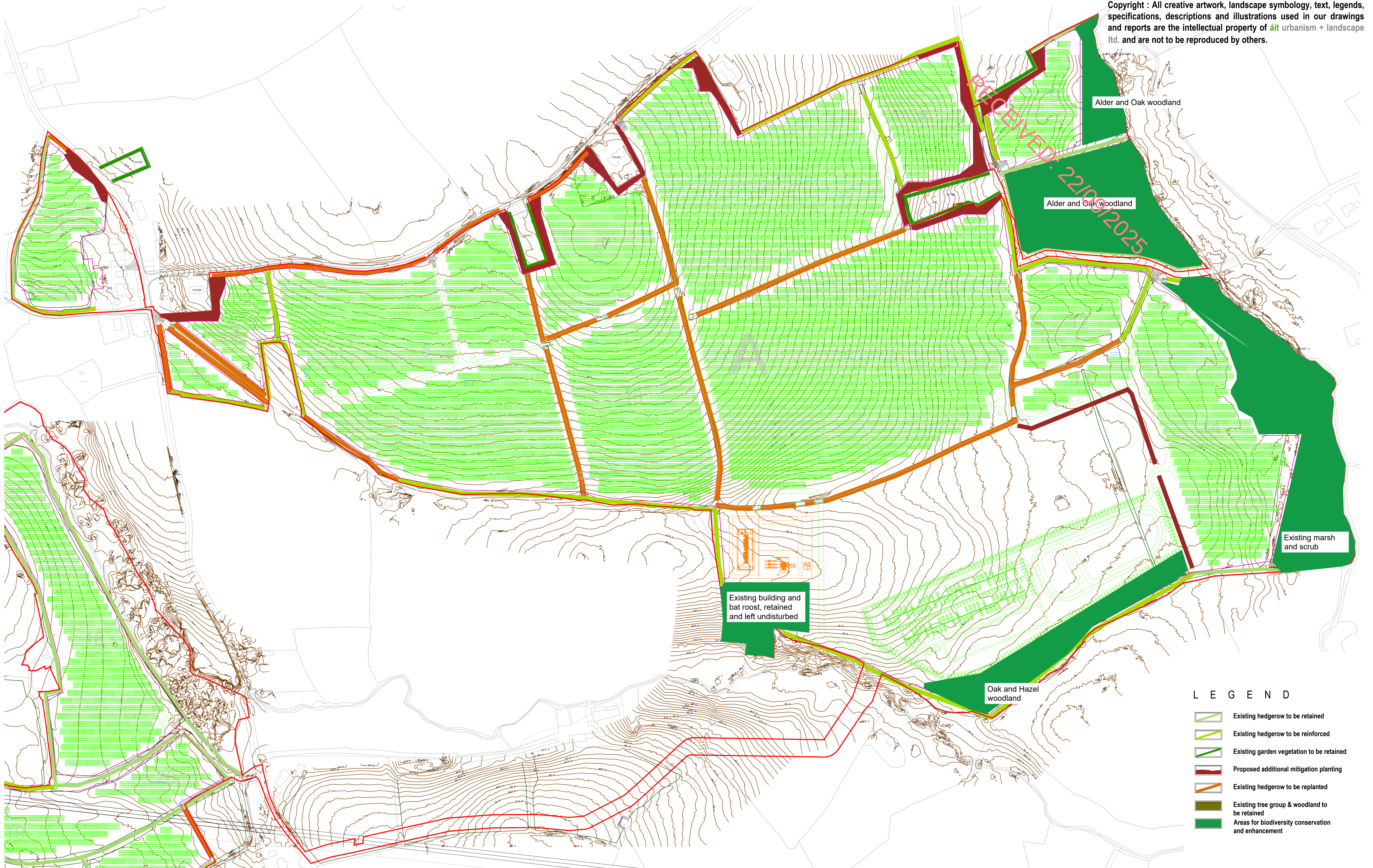
e: margaret@ait-place.ie
t: (086)3263466
w: www.ait-place.ie

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	Existing hedgerow to be retained
	Existing hedgerow to be reinforced
	Existing garden vegetation to be retained
	Proposed additional mitigation planting
	Existing hedgerow to be replanted
	Existing tree group & woodland to be retained
	Areas for biodiversity conservation and enhancement

	3rd Floor Neomaterial Houses, Neomaterial Squares, Dubai 8 Inside 1 t + 353 86 1776622 info@ait.ie		ISSUE STATUS: PLANNING DRAWING NO: 25W001-DR-0100		REVISION: -	
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PROJECT: Shelburne Energy Farm		PROJECT NO: 1-85009		SCALE: A1	SHEET SIZE: A4	NUMBER: 20
DRAWING: Mitigation Plans - Overall						

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LEGEND

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- Existing tree group & woodland to be retained
- Areas for biodiversity conservation and enhancement

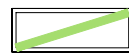
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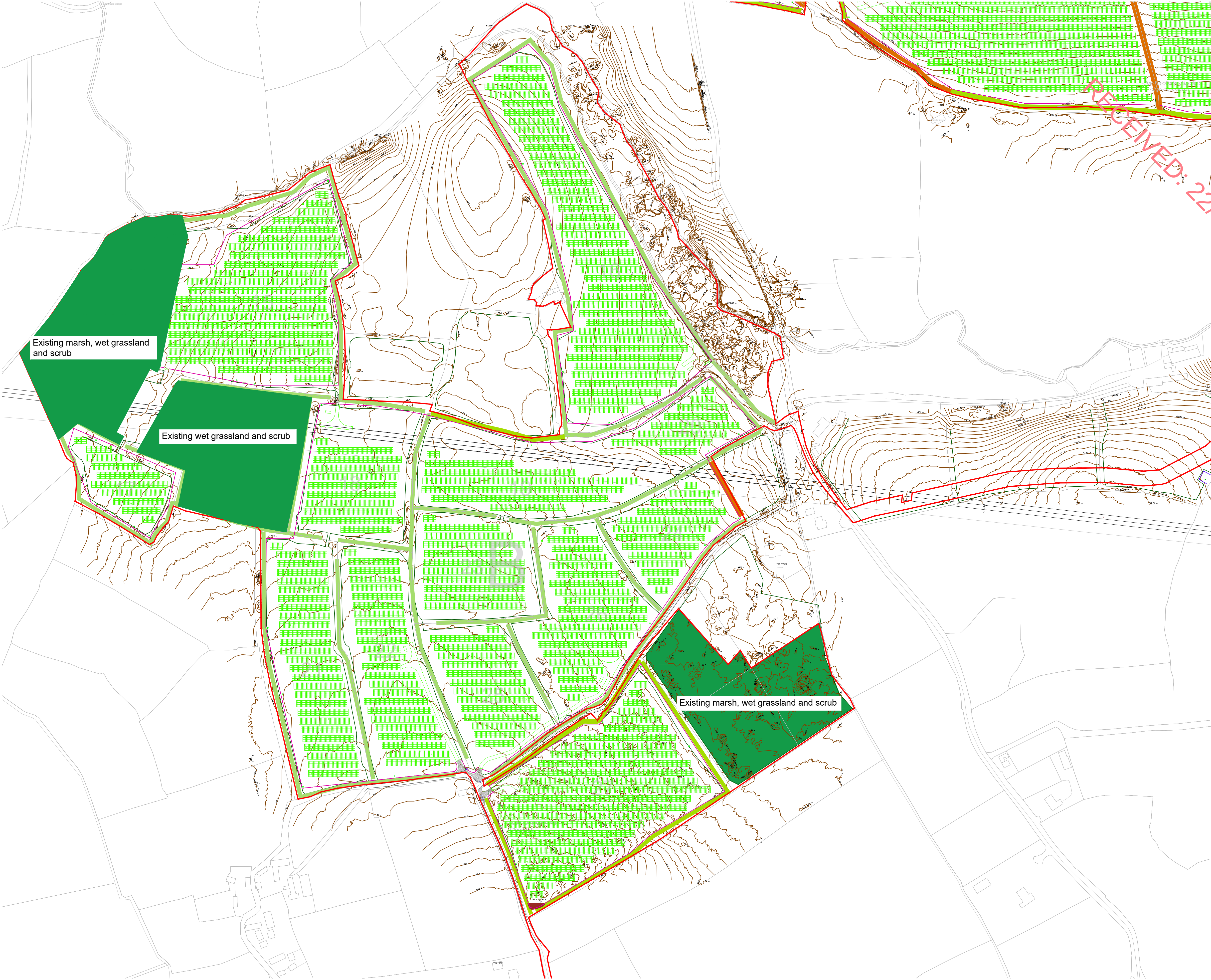
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	DRAWING: Mitigation Plans - Section A		1st ISSUE: 15.08.2025				
	PROJECT NO: 25WX01		SCALE: 1:2000		SHEET SIZE: A1		
						CHECKED BY: DMacD	

L E G E N D

-  Existing hedgerow to be retained
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-  Existing hedgerow to be replanted
-  Existing tree group & woodland to be retained
-  Areas for biodiversity conservation and enhancement



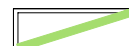
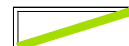
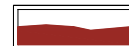
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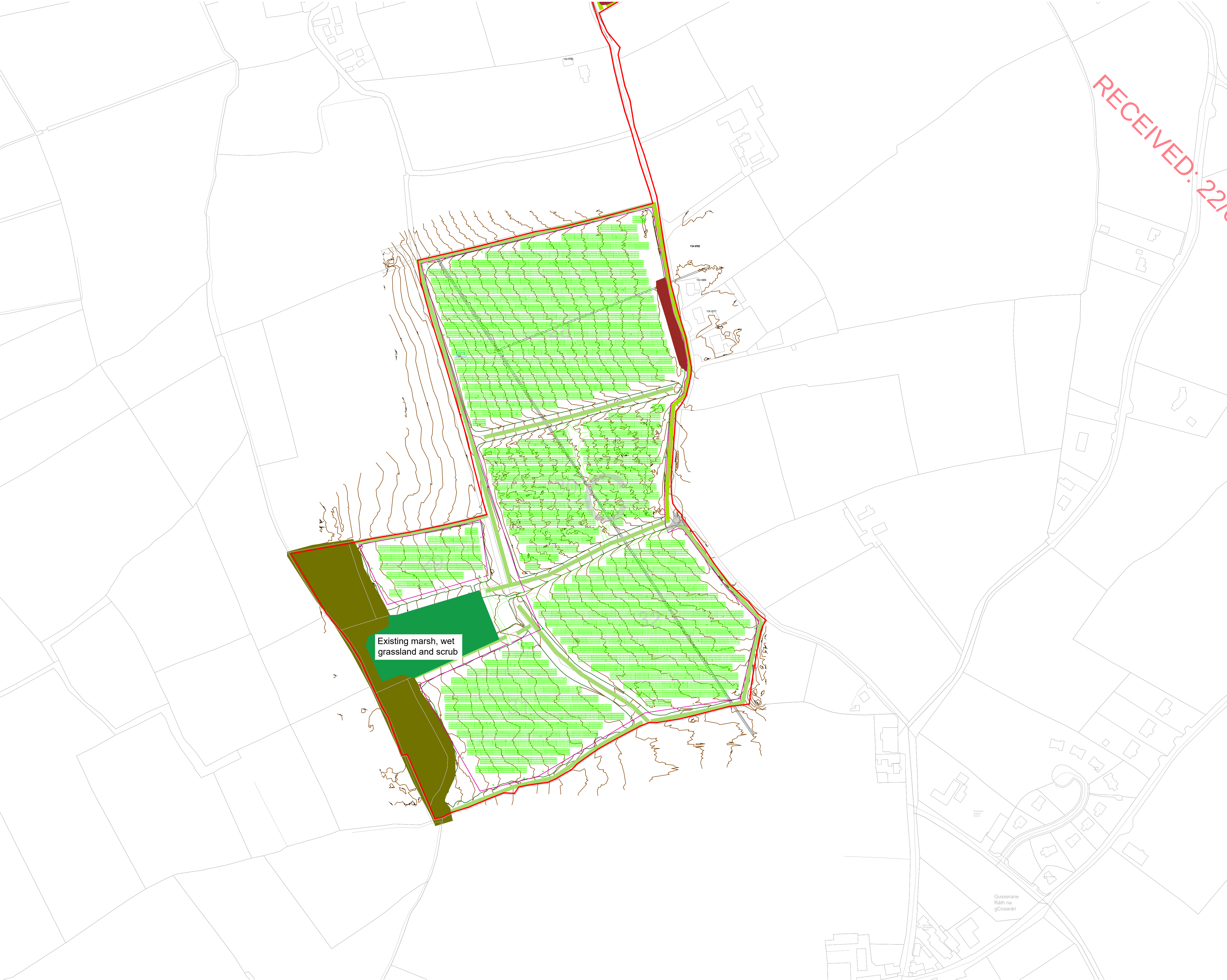
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	CLIENT: Gen7 Renewable Energy Ltd.					
	PROJECT: Shelburne Energy Farm		DRAWN BY: GR. DMaC		1st ISSUE: 15.06.2025	
	DRAWING: Mitigation Plans - Section B		PROJECT NO: 25WX01		SCALE: 1:2000	
				SHEET SIZE: A1	NORTH	
					CHECKED BY: DMaC	

L E G E N D

-  Existing hedgerow to be retained
-  Existing hedgerow to be reinforced
-  Existing garden vegetation to be retained
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-  Existing hedgerow to be replanted
-  Existing tree group & woodland to be retained
-  Areas for biodiversity conservation and enhancement

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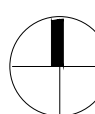
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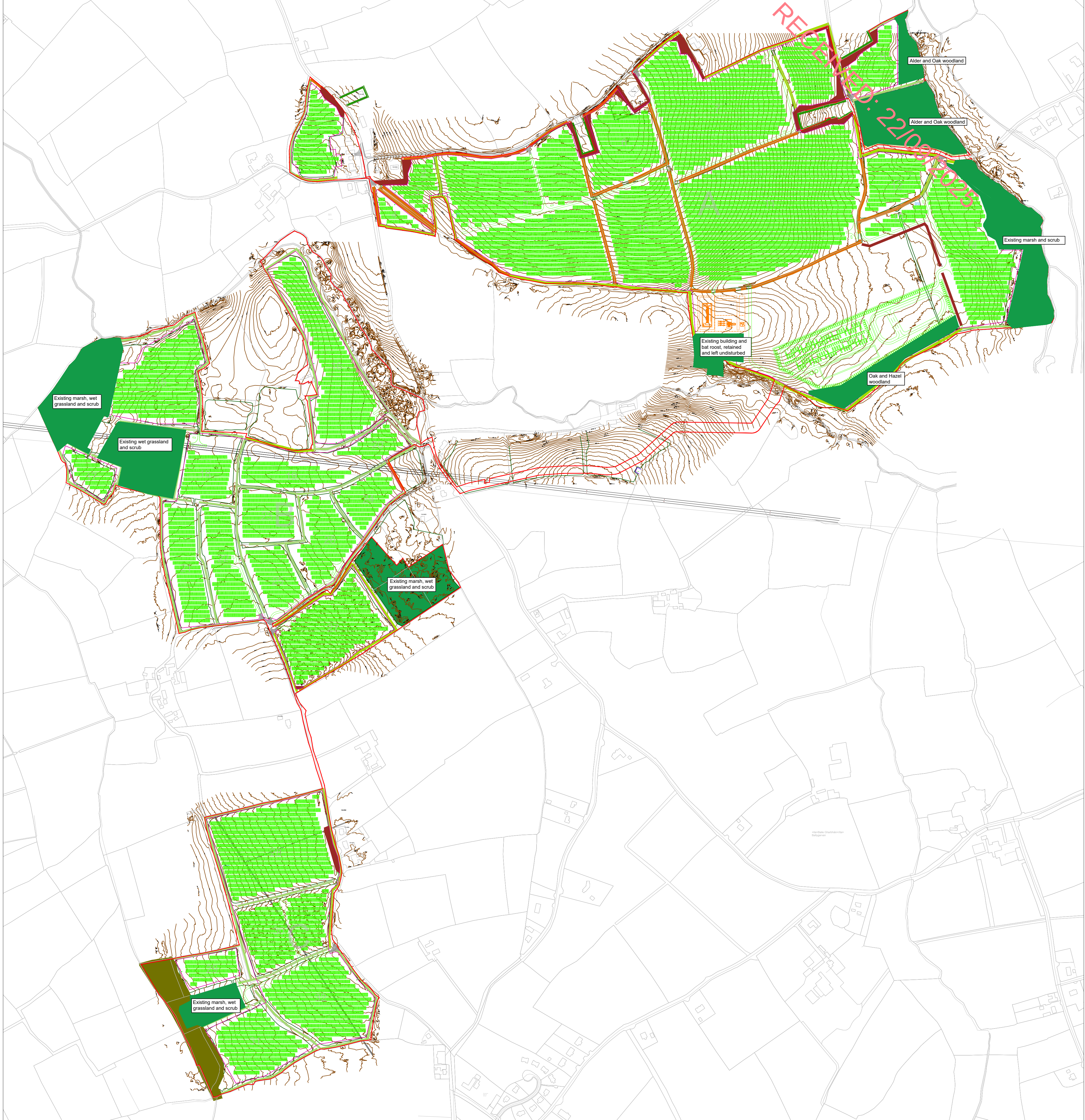
NOTES:

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PROJECT: Shelburne Energy Farm		DRAWING NO: 25WX01-DR-0103			
DRAWING: Mitigation Plans - Section C		DRAWN BY: GB, DMacD	1st ISSUE: 15.08.2025	NORTH	
PROJECT NO: 25WX01	SCALE: 1:2000	SHEET SIZE: A1	CHECKED BY: DMacD		

The map shows the River Sever flowing through the study area. The surrounding land is primarily agricultural, with some woodland areas. The proposed development area is highlighted in green. The map includes a legend for 'Alder and Oak woodland' and a scale bar indicating 0 to 100 meters.



	Existing hedgerow to be retained
	Existing hedgerow to be reinforced
	Existing garden vegetation to be retained
	Proposed additional mitigation planting
	Existing hedgerow to be replanted
	Existing tree group & woodland to be retained
	Areas for biodiversity conservation and enhancement

- | | |
|---|---|
|  | Existing hedgerow to be retained |
|  | Existing hedgerow to be reinforced |
|  | Existing garden vegetation to be retained |
|  | Proposed additional mitigation planting |
|  | Existing hedgerow to be replanted |
|  | Existing tree group & woodland to be retained |
|  | Areas for biodiversity conservation and enhancement |

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	CLIENT: Gen7 Renewable Energy Ltd.		DRAWN BY: Gae, DM&D		1st ISSUE: 15.08.2023		
PROJECT: Shelburne Energy Farm		PROJECT NO: 25WX01		SCALE: 1:4000		NORTH	
DRAWING: Areas for Biodiversity		PROJECT NO: 25WX01		SCALE: 1:4000		SHEET SIZE: DMSD	
						CHECKED BY: DMSD	